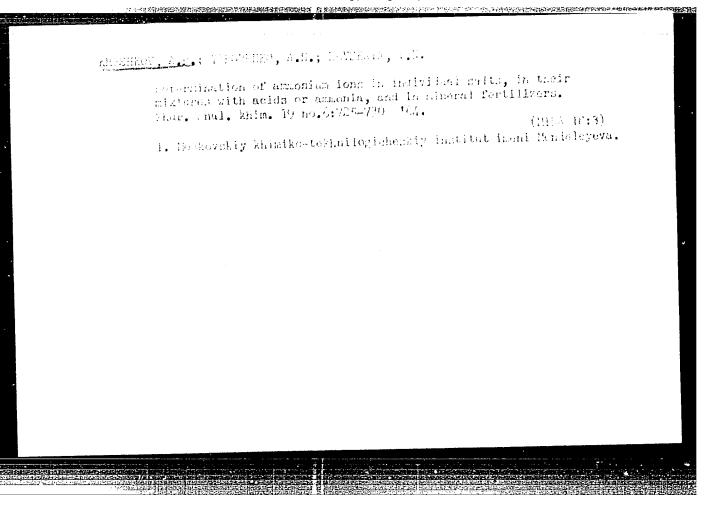
KRECHKOV, A.F.; ALDARCVA, H.Sh.

Potentionstric titration of heterocyclic nitrogen-containing compounds and their mixtures in a methyl othyl ketene medium. Zhur. anal. khin. 19 no.5:537-540 '64. (MIRA 17:8)

1. Mcskovskiy knimiko-tekhnologicleskiy institat imeni Mendeleyeva.



KRESHKOV, A.P.; BYKOVA, L.M.; PEVYNER, I.D.

Potenticmetric method of titration of diamines and their mixtures in a medium of differentiating solvents. Zhur. anal. khim. 19 no.7: (MIRA 17:11)

890-896 '64.

1. Mendeleev Moscow Chemico-Technological Institute.

BALYATHISKAYA, L.N.; KRESHKOV, A.P.; TUR'YAN, Ya.i.

Potentiometric method for the determination of vinyl monomers.

Zhur. anal. khim. 19 no.8:1025-1028 'cd. (MIRA 17:11)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva
i Yaroslavskiy nauchno-issledovatel'skiy institut monomerov dlya
sinteticheskogo kauchuka.

EFF(c)/EWP(j)/EWT(m) Pc-4/Pr-4 RM UR/0075/64/019/010/1177/1182 ACCESSION NR: AP5015697 13 AUTHOR: Kreshkov, A. P.; Drozdov, V. A.; Kolchina, N. A. TITIE: Determination of methylphosphinic acid and its derivatives by titration in aqueous media SOURCE: Zhurnal analiticheskoy khimii, v. 19, no. 10, 1964, 1177-1182 TOPIC MGS: phosphinia acid, titrimetry Abstract: The determination of methylphosphinic acid, methylphosphinyl dichloride, and the monoisobutyl ester of methylphosphinic acid by titration in nonequeous solutions was studied. Acetonitrile, methyl ethyl' ketone, and pyridine were tested as the medium for the titration of methylphosphinic acid; acetonitrile, methyl ethyl ketone, and a mixture of diethyl ether and methyl ethyl ketone (1:1) were used as the titration medium for the acid ester. A 0.1% acctonitrile solution of quinizarine (1,4-dihydroxyanthraquinone) was used as the indicator in methyl ethyl ketone and acctonitrile medium, as well as in the mixture of solvents; the titration reagent was a 0.1 N benzene-methanol solution of tetraethylammonium hydroxide. In the indicated solvents, methylphosphinic acid

	公司,我们就是我们的保护的社会的政策的政策的。 第一个人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,	1999
ACC an of diametric distriction of the case of the cas	CESSION NR: AP5015697 In its monoisobutyl ester are titrated as monobasic acids. Upon addition to 0.2% H ₂ 0 to methyl ethyl ketone, methylphosphinic acid begins to essociate and is titrated as a dibasic acid, the second potential drop creasing as the amount of added water is raised to 1.5%. The method of rect titration with a solution of sodium methylate in absolute benzone dium in the presence of thymolphthalein and a method of reverse titration, based on the reaction of dimethylphosphinyl dichloride with an escess of a 0.1 N solution of piperidine in acctonitrile, followed by tentiometric titration of the excess piperidine with a 0.1 N acqueous lution of HCl, was used to determine the acid dichloride. In addition the quantitative determination of the phosphinic acid and derivatives individual compounds, two-component-(methylphosphinic and hydrochloric wide) and three-component mixtures (methylphosphinic acid, hydrochloric wide) and three-component mixtures (methylphosphinic acid, hydrochloric wide) and three-component with a 0.1 N solution of tetraethyldium by potentiometric titration with a 0.1 N solution of tetraethylmonium hydroxide, without the addition of water and with an addition of monium hydroxide, without the addition of water and with an addition of the hydroxide with a titration of two-component mixtures in absolute methylethyl ketone, two potential drops were observed; however, differentiation	
et wa of	thyl ketone, two potential drops were observed; however, differentiation is not very distinct. The addition of 4.5% water before the beginning titration produced three distinct potential drops: 1) neutralization	

L #2330-65

ACCESSION NR: AP\$015697

of HCI (quantitative results); 2) neutralization of the first stage of methylphosphinic acid (quantitative results); 3) neutralization of the methylphosphinic acid (unstable results). In the titration second stage of methylphosphinic acid (unstable results). In the titration of three-component mixtures, two potential drops were obtained in absorbate methyl ethyl ketone, the first corresponding to the neutralization of hydrochloric acid, the second to the sum of the first stage of methylphosphinic acid and the acid ester, everestimated results being obtained phosphinic acid and the acid ester, everestimated results being obtained according to the second drop. The addition of 4.5% water to the methyl according to the second drop. The addition of 4.5% water to the methyl ethyl ketone before titration produced three distinctly differentiated potential drops: quantitative titration of HCl, quantitative titration of the sum of the first stage of methylphosphinic acid and the acid ester, and titration of the second stage of methylphosphinic acid (unstable results). Orig. art. has 2 formulas, 5 graphs, and 4 tables.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva

(Moscow Chemico-Technological Institute)

SUBMITTED: 18Feb64

ENCL: 00

JIB CODE: OC. GC

NO REF SOV: 005

OTHER: OLL

JPRS

Cord 3/3 7/1/3

RRESHKOV, A.F.; MITHATIENKO, Yu.Ya.; TUWOYSKIY, L.A.

Differentiated determination of weak acids by the method of spectrophotometric titration in menaqueous solutions. Thur. anal. khim. 19 no.11:1293-1298 '64.

(MIRA 18:2)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

KRETHKOV, A.P.; VASILIYEV, V.I.

Analysis of a mixture of nitro-ortho-toluidine isomers and a mixture of nitro-para-toluidine isomers by a method of spectro-photometric titration in nonaqueous solutions. Zrur. anal. khim. 19 no.12:1508-1512 164 (NIRA 18:1)

1. D.I. Mendeleyev Moscow Chemico-Technological Institute.

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KRESHKOV, A.P.; BYKOVA, L.N.; SKRIPKO, L.A.; PEVZHER, I.D.

Differentiated determining of diamines used as number subbliners with the method of titration in nonaqueous solutions. Kauch. i rez. 23 no.12:47-50 D 164. (MIRA 18:2)

1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva i Nauchno-issledovatel'skiy institut khimikatov dlya polimernykh materialov.

ACCESSION NR: AP4033609

8/0032/64/030/004/0413/0415

AUTHORS: Kreshkov, A. P.; Drosdov, V. A.; Tarasyants, R. A.

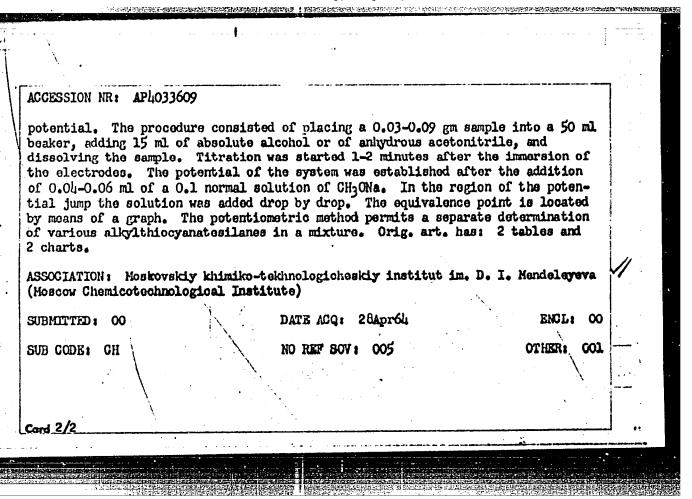
TITLE: Tritration of alkylthiocyanatesilanes in nonaqueous media

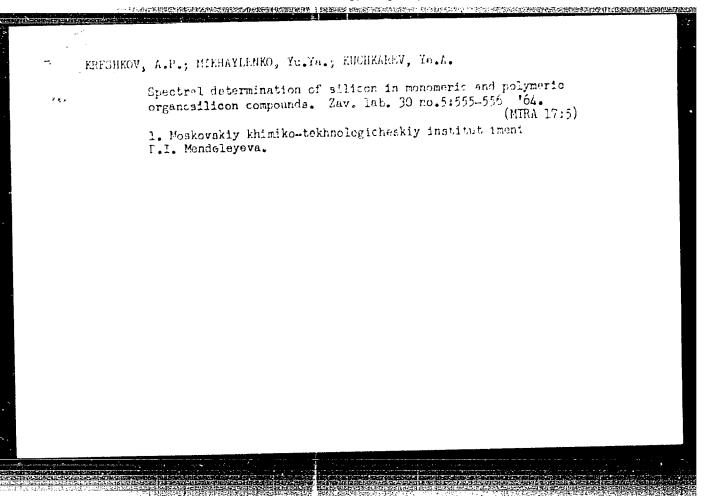
SOURCE: Zavodskaya laboratoriya, v. 30, no. 4, 1964, 413-415

TOPIC TAGS: alkylthiccyanatesilane, alkylthiccyanatesilane titration, sodium methylate titration, IP 58 potentiometer

ABSTRACT: A method was developed for the quantitative determination of the SCN groups in alkylthiocyanatesilanes of the general formula $R_n Si(SCH)_{i_i-n}$, where the R is a methyl, ethyl, or ethylene group. The method was based on titration with a methanol solution of sodium methylate in a medium of acetonitrile, or methyl, ethyl, n-propyl, and n-butyl alcohol. In one modification the titration was conducted in the presence of indicators of the exyanthraquinone series (such as quinizarin, purpurin, alizarin, and anthrarufin) used in the form of saturated solutions in acetonitrile. In the second modification the titration was conducted by means of a LP-58 potentiometer with a system of glass and calomel electrodes. The neutralization point corresponded to a sharp jump (about 400 mv) of the

Card 1/2





KMY-EKSV, A.P.; BORK, V.A.; APARTEVA, E.I.

Amperometric titration of unsaturated organosilicon compounds in nonaqueous media. Zav. lab. 30 no.10:1203-1211 '64. (PTPA 13:4)

1. Moskovskiy khimiko-teknnologicheskiy institut izeni Mondalayeva.

KRESHKOV, A.P.; SAYUSHKINA, Ye.H.; DROZDOV, V.A.

Preparation of tetramethyl ammonium hydroxide solution by the ion-exchange method. Zhur. prikl. khim. 37 no.9:1894-1898 S '64. (MIKA 17:10)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

L 23512-65 EWT(m)/EPF(c)/EWP(v)/EPR/EWP(j)/T Pr-4/Pc-4/P6-4 WW/RM ACCESSION NR: AP4047126 S/0080/64/037/010/2278/2283

AUTHOR: Kreshkov, A. P.; My*shlyayeva, L. V.; Soboleva, D. A.

TITLE: The reactions of certain alkyl-alkyloxy silanes with aqueous alkali zincate and beryllate solutions

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 10, 1964, 2278-2283

TOPIC TAGS: alkylalkyloxysilane, alkylsilanolate zincate, alkylsilanolate beryllate, impregnant, surfactant impregnant, glass cloth impregnant

ABSTRACT: The reactions of trimethylmethoxy silane (I) and of dimethyldimethoxysilane (II) with aqueous alkali solutions of sodium zincate (III) and sodium beryllate (IV) were investigated. Reactions of I with III and IV within a wide molar ratio of the reactants (Si:Zn(Be) = 2:1, 1:1, 1:2 and 1:3) all gave products having the molecular compositions 6(CH₃)₃SiONa. Na₂ZnO₂. 3OH₂O (sodium monozincate of 6-trimethylsilanolate), and 3(CH₃)₃SiONa. Na₂BeO₂. 22H₂O (sodium monoberyllate of 3-trimethylsilanolate), respectively. The

Card1/2

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826410

L 23512-65

ACCESSION NR: AP4047126

3(CH₃)₂Si(OH)ONa. Na₂ZnO₂. 10H₂O (sodium monozincate of 3-dimethylhydroxylsilanolate) and 3(CH₃)₂Si(OH)ONa. Na₂BeO₂. 22H₂O(sodium monoberyllate of 3-dimethylhydroxysilanolate) were obtained by reaction of II with III and IV solutions only when the reactant molar ratio was such that Si:Zn(Be) was 4:1. Other reactant ratios gave mixtures of products of variable compositions. The obtained products were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystalloproducts were subjected to IR spectroscopic, ionizing x-ray and microcrystall

ASSOCIATION: None

SUBMITTED: 02Oct62

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 010

OTHER: 001

Cord 2/2

8/0076/64/038/003/0738/0740

ACCESSION NR: AP4033407

Kreshkov, A. P.; Vlasov, S. V.; Drozdov, V. A.; Vlasova, Ye. G. AUTHOR:

TITIE: Study of certain properties of oxygen containing silicon organic compounds in liquid hydrogen fluoride medium.

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 3, 1964, 738-740

TOPIC TAGS: silicon organic compound, hydrogen fluoride, sodium triethyl silanolate, triethyl silinole, hexamethyldisiloxane, hexaethyldisilocane, electrical conductivity method, dissociation

ABSTRACT: Oxygen containing silicon organic compounds, such as sodium triethylsilanolate (C₂H₅)₃ SiONa (I), triethylailanole (C₂H₅)₃SiOH (II), hexamethyldisi-loxane [(CH₃)₃Si₂] (III) and hexaethyldisilocane [(C₂H₅)₃Si₂O (IV) in a liquid hydrogen fluoride medium were studied by the electrical conductivity method. The specific and equivalent electrical conductance were calculated for the studied compounds. Liquid hydrogen fluoride was chosen as a solvent because of its high dielectric constant, low viscosity, low molecular association and the fact that most compounds, when dissolved in hydrogen fluoride, act as bases. The dissolving

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ACCESSION NR: AP4033407

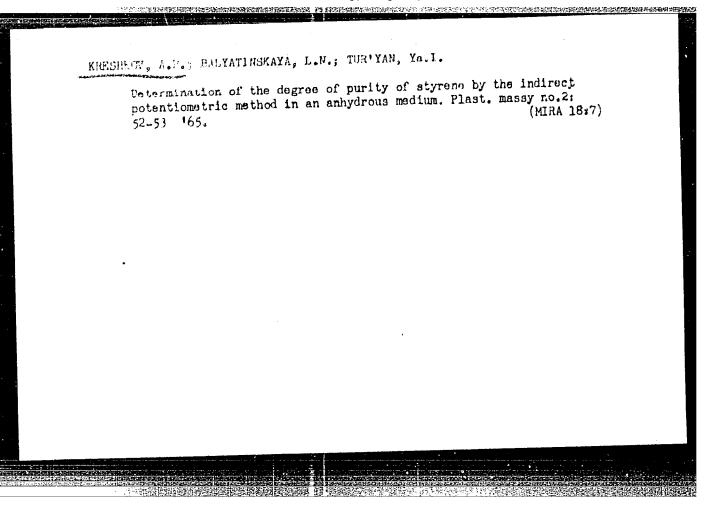
process of organic compounds in hydrogen fluoride is assumed to proceed by the attachment of hydrogen fluoride to the dissolving compound accompanied by the dissociation of the solvate into a complex cation and hydrofluoride ion. All the compounds used in the experiment were thoroughly purified. Hydrogen fluoride was purified by a fractionation copper column and had a specific electrical conductive ity of 1.29°10-4 - 9.43°10-4 ohm-1.cm-1, which corresponded to 0.01 to 0.05 % water content. The electrical conductivity was measured at 1000 cycles at -10 _ 0.1 C and the results of these measurements are given in a table. It was found from the specific conductance that compound II behaved analogously to alcohols (ethanol) and displayed strong basicity. Compounds III and IV were analogous to ethers (diethyl ether) with weakly basic properties. It is concluded that the dissociation of the silicon organic compounds in liquid hydrogen fluoride is similar to the silicon organic compounds in liquid hydrogen fluoride is similar to the dissociation of organic compounds and can be expressed as follows:

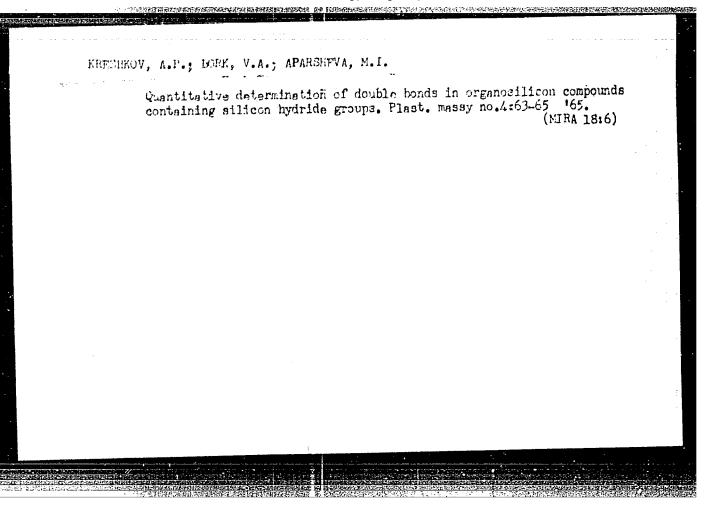
Card 2/3

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CCESSION NR: AP4033407			
(CH	$\begin{array}{c} _{3}H_{4})_{s}SIOH + H_{5}F_{3} \Longrightarrow & (C_{3}H_{4})_{s}SIOH_{5}^{+} + HF_{5}^{-}, \\ _{13)_{s}SI} \\ O + H_{5}F_{4} \rightleftharpoons & (CH_{5})_{s}SI \\ & \\ (CH_{5})_{s}SI \end{array}$		
Orig. art. has: 1 tabl ASSOCIATION: Moskovski (Moscov Institute of Ch			eva.
ASSOCIATION: Moskovski (Moscov Institute of Ch	y khimiko-tekhnologicheskiv in nemical Technology)!	encl: 00	eva.
ASSOCIATION: Moskovski (Moscov Institute of Ch SURMITTED: OhMar63			eva.
ASSOCIATION: Moskovski (Moscov Institute of Ch	y khimiko-tekhnologicheskiv vo nemical Technology)!	encl: 00	eva.

KRESHKCV, A.P., VASIL'YEV, V.I.

Differentiating effect of nonaqueous solvents as dependent on the titrimetric method of determining acids and bases. Trudy MKHTI no.44, 125-131 *64.





KRESHKOV, A.P.; KHUDYAKOVA, T.A.; AUROV, A.P.; ARBATSKIY, A.P.

Chronoconductomotric method for determining malcic anhydride in its copolymer with styrene and sodium styromaleinate. Plast. massy no.7: 51-55 '65.

(MIRA 18:7)

KRESHKOV, A.P.; MIKHAYLERKO, Yu.Ya.; SELETOYAYA, L.P.

Using the infrared spentroscopy method for determining unsaturated groups in cilicon organic compounds. Last. massy no.8:48-50 '65. (MRA 18:9)

KFESHKOV, A.P.; YAROVENKO, A.N.; SAYUSHKINA, Ye.N.; ZELENINA, L.N.

Using the method of differential titration in nonaqueous solutions for the determination of salts. [zv.vys.ucheb.zav.; khim. i khim. tekh. 8 nc.2:196-202 *65.

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva, kafedra analiticheskoy khimit.

L 19387-66 EVT(m)/EWP(j) RM ACCESSION NR: AP5015574

UR/0153/65/008/002/0316/0319

47

AUTHOR: Kreshkov, A. P., Aldarova, N. Sh.

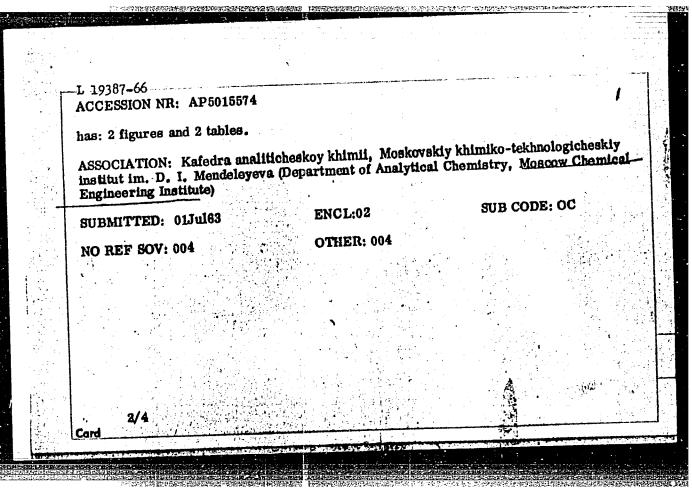
TITLE: Potentiometric method of determining monomeric, model, and polymeric compounds of the benzimidazole series

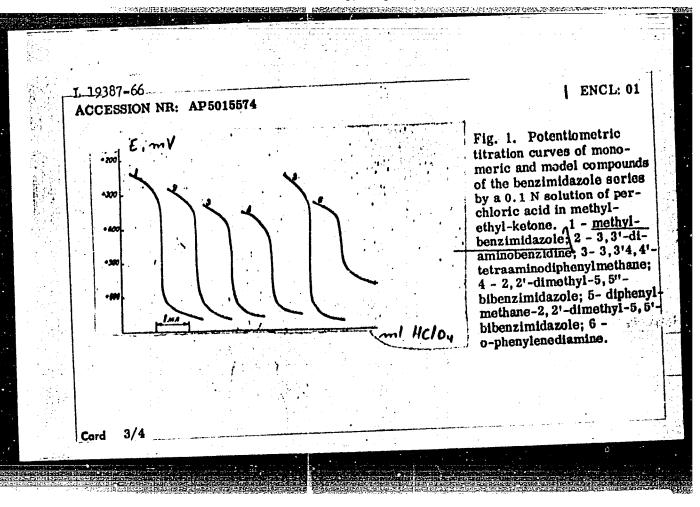
SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 8, no. 2, 1965, 316-319

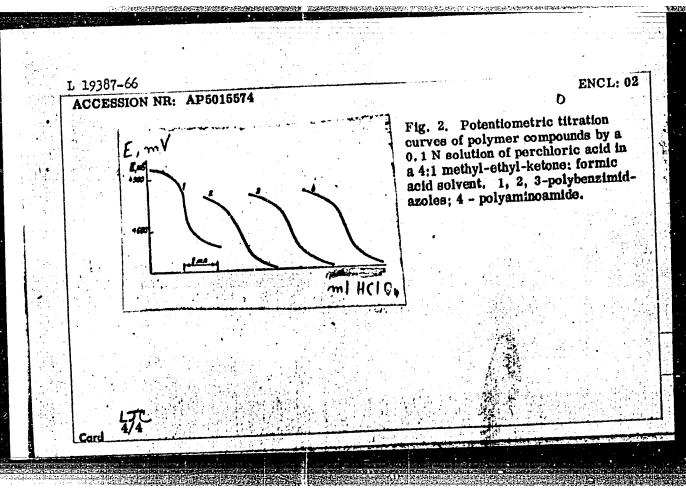
TOPIC TAGS: benzimidazole, titrimetry, polyamine, potentiometric titration, perchloric acid

ABSTRACT: The determinations were made using a glass - calamel electrode system. The medium for the titration of the model and monomeric compounds was methyl-ethyl-ketone, and the titrating agent was a 0.1 N solution of perchloric acid in methyl-ethyl-ketone. Fig. 1 of the Enclosure shows the titration curves of the monomeric and model compounds; the error in the quantitative determination of these compounds was 1-3%. Curves obtained by titrating polybenzimidazoles and polyaminoamide are shown in Fig. 2 of the Enclosure. These studies provide a confirmation of the structure of the monomer unit of polybenzimidazoles (each such unit containing an NH group which is titrated), and are an indirect proof of the mechanism governing the formation of these compounds from tetramines and dicarboxylic aliphatic and aromatic acids and their esters. Orig. art.

Card 1/4







ACCESSION NR: AP5024		UR/0286/65/000/013/00	031/0031 26'241'245
	برادة P.; <u>Drozdov</u> , V. A.; Orlova	44,55	38
AUTHOR: Kreshkov, A.	P.; Drozdov, V. A.; Orlova	1. 1. Yu.	B
TITLE: A method for	P.; Drozdov, V. A.; Orlova producing trialkyl difluore	phosphate silanes. Class	3 12,
NO. 1/3228		4.	
SOURCE: Byulleten'	zobreteniy i tovarnykh znak	(ov, no. 15, 1965, 31	
TOPIC TAGS: silane.	organosilicon compound, amo	monium phosphate, fluorina	ated or
ganic compound, chlor	rinated organic compound	•	e e
ganic compound, chlor ABSTRACT: This Author difluorophosphate sil pyl difluorophosphate difluorophosphate in	rinated organic compound or's Certificate introduces: lanes, e.g. trimethyl, tric s silanes. Trialkyl chloros an organic solvent with the	: 1. A method for produce thyl, dimethylethyl and silanes are interacted with application of heat. A re is heated to boiling.	ing trialkyl diethylpro- th ammonium modifica-
ABSTRACT: This Authority diffuorophosphate silpyl diffuorophosphate in tion of this method. ASSOCIATION: Hoskov	rinated organic compound or's Certificate introduces: lanes, e.g. trimethyl, tries silanes. Trialkyl chloros an organic solvent with the which the reaction mixtureskiy khimiko-tekhnologiches	: 1. A method for production, dimethylethyl and silanes are interacted with application of heat. A re is heated to boiling.	ing trialkyl diethylpro- th ammonium modifica- ndeleyeva
ganic compound, chloradifluorophosphate sile pyl difluorophosphate in tion of this method ASSOCIATION: Hoskov (Moscow Institute of SUBMITTED: 13Apr63	rinated organic compound or's Certificate introduces lanes, e.g. trimethyl, trice a silanes. Trialkyl chloros an organic solvent with the ln which the reaction mixturkly khimiko-tekhnologiches Chemical Technology) 44,55	: 1. A method for production, dimethylethyl and silanes are interacted with application of heat. A re is heated to boiling.	ing trialkyl diethylpro- th ammonium modifica-
ganic compound, chloradifluorophosphate silpyl difluorophosphate in tion of this method ASSOCIATION: Hoskov (Moscow Institute of	rinated organic compound or's Certificate introduces tanes, e.g. trimethyl, trice silanes. Trialkyl chloros an organic solvent with the ln which the reaction mixturkiy khimiko-tekhnologiches Chemical Technology) 44.55	: 1. A method for productethyl, dimethylethyl and silanes are interacted with application of heat. A re is heated to boiling. kiy institut im. D. I. Me	ing trialkyl diethylpro- th ammonium modifica- ndeleyeva

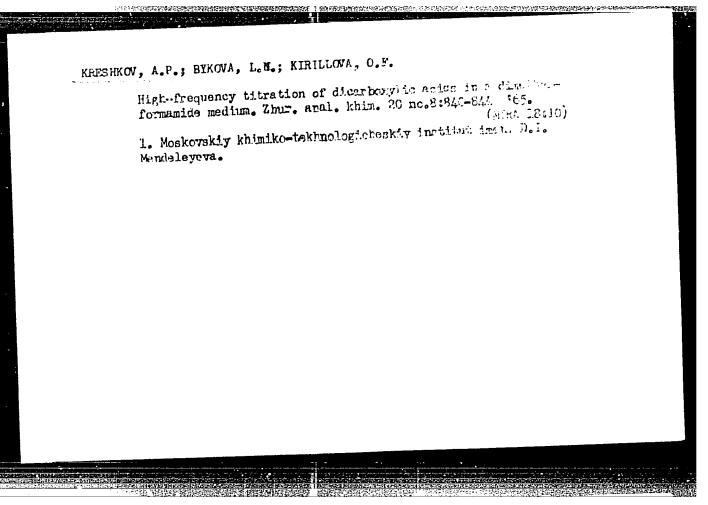
KPESHKOV, A.P.; KHUDYAKOVA, T.A.

Chronoconductometric method for determining weak acids.

Zhur. anal. khim. 20 no.5:625-629 '65. (MIRA 18:12)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I.

Mendeleyova i Gor'kovskiy politokhnicheskiy in: titut imeni
A.A. Zhdanova. Submitted March 27, 1964.



KRESHKOV, A.P.; CHIVIKOVA, A.N.; ZAGCROVSKAYA, A.A.

Rapid method of determining free amorphous silicen dioxide in clays. Zhur. anal. khim. 20 no. 11:1253-1255 '65 (MIRA 19:1)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I.

Mendeleyeva. Submitted January 8, 1965.

KRESHKOV, A.P.; MYSHLYAYEVA, L.V.; KUCHKAREV, Ye.A.; SHATUNOVA, T.G.

Quantitative determination of titanium in organotitanium and organosilicotetanium compounds. Zhur. anal. khim. 20 no.12: 1325-1329 '65. (MIRA 18:12)

等的。 第一天,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的人,我们

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva. Submitted November 28, 1964.

KRESHKOV, A.P.; YAROVENKO, A.N.; MILAYEV, S.M.; ALDARO'A, N. Sh.

Analymis of rare-earth salts in nonequeous solutions. Zhur. anal. (MIRA 19:1)

1. Mookovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva i Vostochno-Sibirskiy tekhnologicheskiy institut, Ulan-Ude.

Using the mercury-acetate method for determining the general non-saturation of butyl rubber. Kauch. 1 rez. 24 no.10:55-56 (MIRA 18:10)

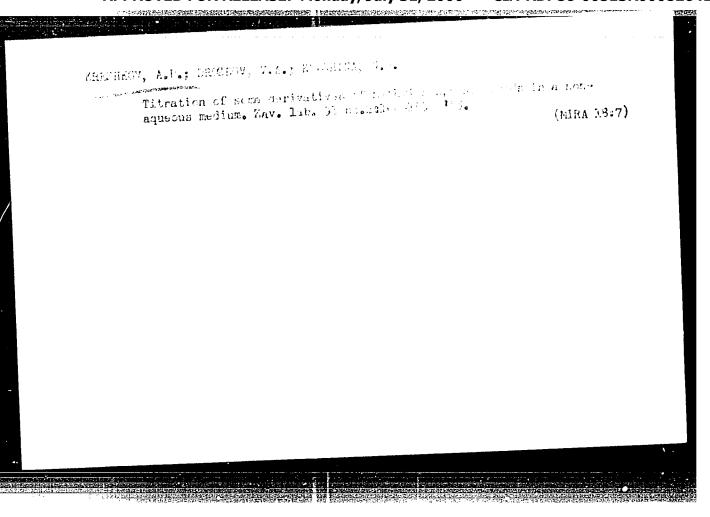
1. Moskovskiy ordena Lenina khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

KRESHKOV, A.P.; VASIL'YEV, V.I.

Spectrophotometric titration of nitro derivatives of amines in nonaqueous solvents. Zav. lab. 31 no.1:30-32 '65.

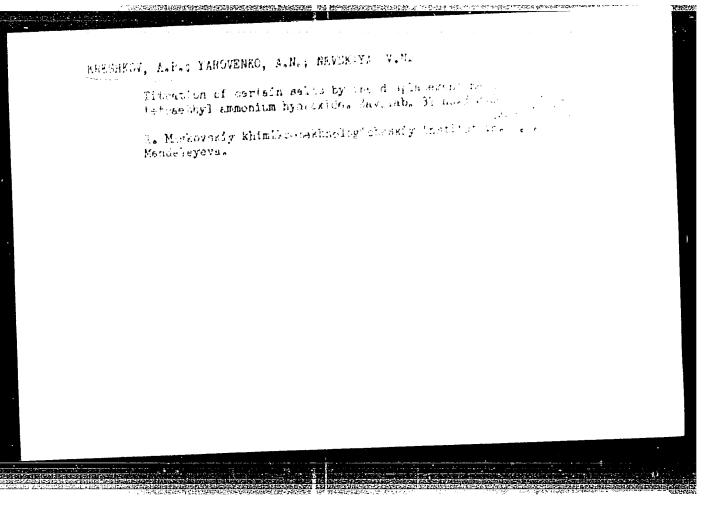
(MIRA 18:3)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.



"APPROVED FOR RELEASE: Monday, July 31, 2000

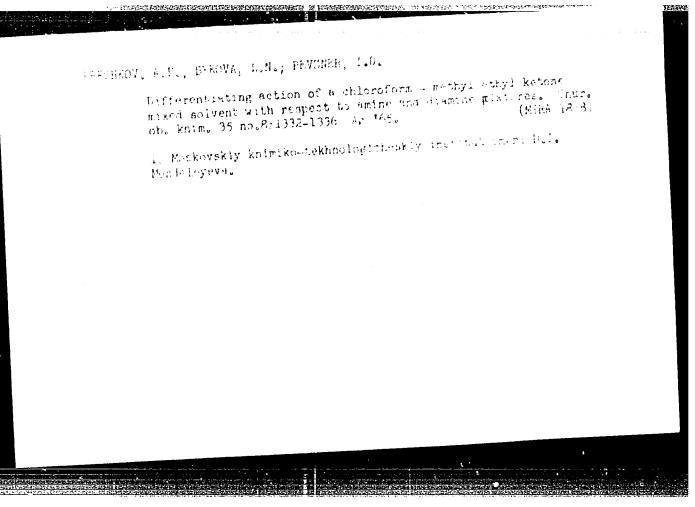
CIA-RDP86-00513R000826410



Chronoconductometric method of determining week acid salts.

Zav. lab. 31 no. 12:1427-1430 *65 (MIRA 19:1)

1. Gor'kovskiy politekhnicheskiy institut i Monkovskiy khimikotekhnologicheskiy institut.



KRESHKOV, A.P.; SAYUSHKINA, Ye.N.; DROZDOV, V.A.

Preparation of nonaqueous solutions of hydroxides of quaternary ammonium bases by means of ion exchange. Zhur. prikl. khim. 38

ammonium bases by means of 10% exchange (MIRA 18:12) no.11:2398-2401 N '65.

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva. Submitted December 10, 1963.

KRESHKOV, A.P.; YAROVENKO, A.N.; WELENINA, L.N.

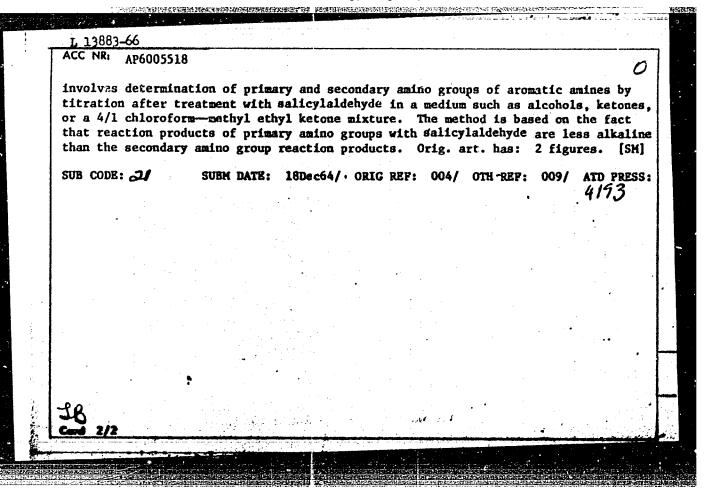
Swelling and absorption properties of ion exchangers in nonaqueous solutions. Plast. massy no.2:57-59 '66.

(MIRA 19:2)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826410

1 13883-06 EVT()/E	WP(1)/T WM/DJ/RM/WE SOURCE CODE: UR/0080/66/039/001/0200/0203
AUTHOR: Kreshkov, A.	P.; Bykova, L. N.; Pevzner, I. D.; Skripko, L. A.
	Technology Institute im. D. I. Mendeleyev (Moskovskiy khimiko- stitut); Scientific Research Institute of Chemicals for Polymeric seledovatel skiy institut khimikatov dlya polimernykh materialov)
TITLE: Synthesis and polymeric materials	d analysis of secondary aromatic diamines used as stabilizers of
} * ·	kladney khimii, v. 39, no.1, 1966, 200-203
TOPIC TAGS: stabili analysis	zer additive, fuel additive, lubricant additive, quantitative
derivatives from N-p suitable as stabiliz N-heptyl-, N-octyl-, lation of N-phenyl-p- Raney nickel catalys points after recryst	tive method has been developed for synthesizing p-phenylenediamine henyl-p-phenylenediamine. It is noted that such derivatives are users for polymeric materials, motor fuels, and lubicating oils, and N-nonyl-N-phenyl-p-phenylenediamine were prepared by alky-phenylenediamine with the appropriate alcohol in the presence of at 130—156C in 95.8—97.8% yields (based on the amine). Melting callization were 49—50, 52—53, and 54—55C, respectively. A was also developed for intermediate products containing mixtures of ediamine and N-alkyl-N'-phenyl-p-phenylenediamines. The method
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CIA-RDP86-00513R000826410

L 34613-66 EWT(m) DS/RM ACC NR: AP6026579	SOURCE CODE: UR/0191/66/000	0/002/0057/0059
AUTHOR: Kreshkov, A. P.; Yarovenko,	• • •	33
ORG: none		6
TITIE: Swelling and absorption capa	city of ion-exchange resins in non	aqueous media
SOURCE: Plasticheskiye massy, no. 2	, 1966, 57-59	
TOPIC TAGS: nonaqueous solution, io dependence, cation, anion exchange r	on exchange resin, methanol, aceton esin, titrimetry	e, temperature
ABSTRACT: The swelling and exchange strongly acidic cation-exchange resin AV-17 in solvents at various temperatures. To of the ion-exchange resins in methan curve with a maximum corresponding tincluding the individual properties of swelling was accompanied by differ which are influenced oppositely by also studied in acetone. The absorp was determined under dynamic condition the column, uniformly filled with dependence of the absorption capacity Card 1/2	in SDV-2 in the H-form and the streethe C1-form) were studied in nonactive temperature dependence of the mol medium was characterized by a sto 16°C; it depended on many factor of the resin and solvent. The pression and adsorption of the solvent temperature. The swelling behavior of the ion-exchange in the ion-exchange resin. The temperature of the cation and anion-exchange resin. The temperature of the cation and anion-exchange ions, retaining a constant rate of the cation and anion-exchange resin.	ongly queous swelling convex rs, ocess t, r was resins flow perature nge resins
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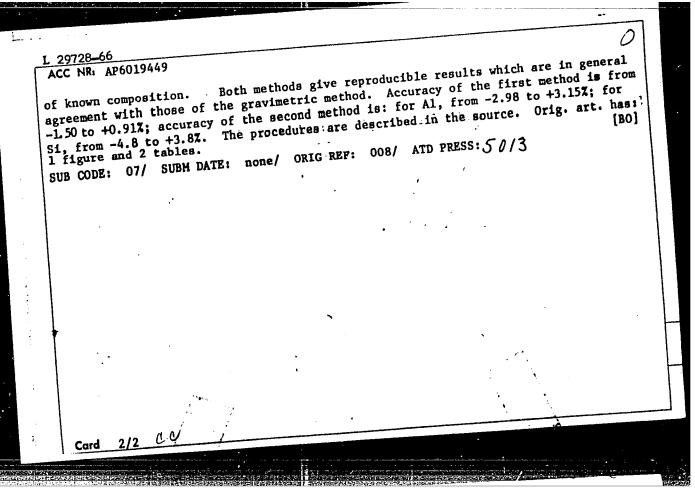
CIA-RDP86-00513R000826410(APPROVED FOR RELEASE: Monday, July 31, 2000

L 3\(\text{613-66}\) ACC NR: AP6026579 Was found to differ; there was also a difference in the dependence of their capacities on the swelling. It was hypothesized that in the case of cation exchange the absorbed solvent in the pores of the swellen ion-exchange resin interferes with the ponetration of cations to the active groups, the dynamic exchange capacity therefore increasing with increasing temperature and the exchange decreasing. In the case of anion exchange the molecules of adsorbed solvent promote an increase in the rate of exchange. The exchange capacity of the anion-exchange resin and its swelling reach a maximum at 20°C. The behavior of the cation-exchange resin in nonaqueous media was also studied by potentiometric titration, in which the cation-exchange resin was found to behave as a strong acid, with an exchange capacity of three milligram equivalents per gram. Orig. art. has: 5 figures and 1 table. [JPRS: 36,455] SUB CODE: 07 / SUEM DATE: none / ORIG REF: 006 / OTH REF: 006	
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"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826410

L 29728_66 ENP(1)/FWT(m) RM/WW SOURCE CODE: UR/0303/66/000/003/0060/0062 ACC NR: AP6019449 SOURCE CODE: UR/0303/66/000/003/0060/0062 AUTHOR: Kreshkov, A. P.; Shatunova, T. G.; Myshlyayeva, L. V.; Kuchkarev, Ye. A. B
ORG: none TITLE: Accelerated methods for determining aluminum and silicon in organic compounds containing aluminum and silicon SOURCE: Lakokrasochnyye materialy i ikh primeneniye, no. 3, 1966, 60-62
TOPIC TAGS: heterogramic compound similar description of the including the solutions. The organic compounds and are organic compounds (ASOC) require complete mineralization of such compounds and are organic compounds (ASOC) require complete mineralization of such compounds and are organic compounds (ASOC) require complete mineralization of such compounds and are organic compounds (ASOC) require complete mineralization of such compounds and are organic compounds (ASOC) require complete mineralization of such compounds and are organic compounds. The authors have developed two accelerated methods for determining time-consuming. The authors have developed two accelerated methods is hydrolyzed with a tion involving complex ion formation. The Si-O Al bond is hydrolyzed with a tion involving complex ion formation. The Si-O Al bond is hydrolyzed with a tion involving solutions is conducted. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The organic solvents contribute to the fast hydrolysis by under these conditions. The titrant is zinc sulfate; the in aqueous-methanol or aqueous-acetone solutions. The titrant is zinc sulfate; the in aqueous-methanol or aqueous-acetone solutions. The titrant is zinc sulfate; the indicator is Xylenol Orange or dithizone. The second method is spectroscopic for indicator is Xylenol Orange or dithizone. The second method is spectroscopic for indicator is Xylenol Orange or dithizone. The two methods were verified with ASOC solutions into a low-power spark discharge. The two methods were verified with ASOC
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L 31271-66 EWT(1)/EWT(m)/EWP(j) RM/RO SOURCE CODE: UR/0079/66/036/002/0307/0310	
AUTHOR: Kreshkov, A. P.; Drozdov, V. A.; Orlova, I. III.	
ORG: none TITLE: Synthesis and investigation of certain properties of Bis[trialkyl(aryl)-	
silyl]monofluorophosphates (silyl]monofluorophosphates (SOURCE: Zhurnal obshchey khimii, v. 36, no. 2, 1966, 307-310 TOPIC TAGS: chemical synthesis, organic phosphorus compound, organosilicon compound, hydrolysis, reaction mechanism, condensation reaction, toxicity, cholinesterase, hydrolysis, reaction mechanism, condensation reaction, toxicity, cholinesterase,	
fluorinated organic compound	
formula (R.S.10) for what is a solution of the silver salt of monofluorophosphoric acid. Since the silver salt of monofluorophosphoric acid. Silver salt of monofluorophoric acid. Silve	
methanol solution of an alkali metal methoxide at the S1-0 condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at condensation at the Si-0-P and P-F bonds when heated above 200-2500 at condensation at condensation at the Si-0-P and P-F bon	
phosphates was rounds exhibit practically no anticontinuous analogs; the compounds and anticontinuous analogs; the compounds and anticontinuous analogs; the compounds and anticontinuous anticontinuous analogs; the compounds and anticontinuous anticontinuous analogs; the compounds and anticontinuous a	
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21529-66 EWT(m)/EWP(1)/T WW/RM SOURCE CODE: UR/0079/66/036/003	/0525/0528
MUTHOR: Kreshkov, A. P.; Drozdov, V. A.; Orlova, I. Yu.	23 B
ORG: none FITLE: Synthesis and investigation of some properties of trialkyl- and t	
difluorophosphates 11 11 10	
SOURCE: Zhurnal obshchey khimii, v. 36, no. 3, 1966, 525-528	lul ogter
TOPIC TAGS: silane, organophosphorus compound, fluorophosphate ester, si	Inj
ABSTRACT: Ammonium difluorophosphate reacts with trialkyl- or triarylsil chlorides in absolute ether to form trialkyl- or triarylsilyl difluoropho	osphates:
$R_*R'SICI + NH_*OPOF_* \rightarrow H_*R'SIOP(F_*)O + NH_*CI$	
(I) $R = R' = CH_0$; (II) $R = R' = C_1H_1$; (III) $R = CH_0$, $R' = C_1H_2$; (IV) $R = C_1H_2$; (V) $R = CH_1$; (V) $R = CH_2$; (VI) $R = CH_2$; (VI) $R = CH_3$; (VII) $R = CH_3$; (VIII) $R = CH_3$; (VIIII) $R = CH_3$; (VIII) $R = CH_3$; (VIIII) $R = CH_3$; (VIII) $R = CH_3$; (VIIII	
The products are colorless, transparent liquids with a sharp odor, which fume in air. They are easily soluble in polar and nonpolar solvents. I shown that the products decompose partially on heating, probably in the	t was following
manner: $3(C_3H_5)_3SIOPOF_3 \rightarrow 3(C_3H_5)_3SIF + POF_3 + P_2O_5$. 2
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CIA-RDP86-00513R000826410

L 3975h 66 EWT (m)/ EMP(j) RM/AW/GD-2 SOURCE CODE: UR/0286/65/000/015/0031/0031
MY MITOR: Kreshkov, A. P.; Drozdov, V. A.; Orlova, I. Yu.
C2G: Koscow Chemico-Technological Institute im. D. I. Mendeleyey (Moskovskiy khimiko-tekhnologicheskiy institut) [1] [1] [1] [2] [3] [4] [5] [6] [7] [7] [7] [8] [9] [9] [9] [9] [1] [1] [1] [1
Class C 07f
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 31
TOPIC TAGS: silane, organic phosphorus compound, phosphate, halogonated organic compound
ABSTRACT: The method for obtaining trialkyldifluoro phosphatesilanes, for example trimethyl-, triethyl-, dimethylethyl-, diethylpropyldifluoro- phosphatesilanes, distinguished by the fact that trialkylchlorosilanes are subjected to reaction with ammonium difluorophosphate in an organic solvent with heating. The method according to paragraph 1, distinguished by the fact that the reaction mixture i heated to boiling. [JPRS]
SUB CODE: 06 / SUBM DATE: 13Apr63
7
Card 1/1 5 5 547,412,2612411245

· #7-7 / (1)
ACC NR: AP6021968 SOURCE CODE: UR/0153/66/009/002/0200/0204
AUTHOR: Kreshkov, A. P.; Drozdov, V. A.; Kolchina, N. A.
ORG: Moscow Chemical Technology Institute im. D. I. Mendeleyev (Moskovskiy khimikotekhnologicheskiy institut)
TITIE: Determination of alkyl phosphonic and phosphonothioic dichlorides, dialkyl-phosphinic and phosphinothioic chlorides
SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 9, no. 2, 1966, 200-204
TOPIC TAGS: analytic chemistry, volumetric analysis, potentiometric titration, organic phosphorus compound, organic sulfur compound, organophosphorus compound
ABSTRACT: A titrimetric method has been developed for quantitative determination of alkyl-phosphonic and phosphonothic dichlorides, dialkyl-phosphinic and phosphinothic chlorides, of methylphosphonic acid and free hydrochloric acid in the abovelisted chlorides. The method was based on the reactions of these chlorides or methylphosphonic acid with a measured excess of an amine (piperidine or cyclohexylmine) in an organic solvent. Back-titration, potentiometric or visual, of the excess mine) in an organic solvent. Back-titration of all the organophosphorus or 5-conamine with 0.1 N HCl determined the quantity of all the organophosphorus for containing organophosphorus chlorides studied and of methylphosphonic acid. The relative error of all determinations with piperidine did not exceed -2.4%. Direct potentio-
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L 38118-66 EWT(m)/EWP(j)/EWP(t)/ETI IJP(c) JD/RM
L 38118-66 EWT(m)/EMP(3)/SAP(C)/ST1 10110075/65/020/012/1325/1329 ACC NR: AP6014141 (A) SOURCE CODE: UR/0075/65/020/012/1325/1329
RIOUIALIA V. Kuchkerev, Ye. A.;
AUTHOR: Kreshkov, A. P.; Myshiyayeva; 2.
Shatunova, T. G. Shatunova, T. G. Institute im. D. I. Mendeleyev
ORG: Moscow Chemico-technological Institute im. D. I. Mendeleyev (Moscovskiy khimiko-tekhnologicheskiy institut)
TITLE: Quantitative determination of titanium in titanium-organic and
TITLE: Quantitative determination of blowns and
SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 12, 1965, 1325-1329
SOURCE: Zhurnal analiticheskoy kulmiz, to the compound, silicon
TOPIC TAGS: quantitative analysis, titanium, titanium compound, silicon
compound to the determination of
ABSTRACT: The article describes two methods for the determination of titanium, a titration (complexometric) and a spectroscopic method. In titanium, a titration of the compound to be analyzed,
14ha +1+mation method a woles of the same E_7 mi of
the the evolution of heavy vaporation than the connect out with
to the evolution of H ₂ SO ₁ vapors. The solution is corried out with complete mineralization of the weighed portion is carried out with emmonium persulfate. The solution is cooled and 30 ml of water are
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ACC NR: AP6014141

carefully added and the solution is boiled for 5-10 min to decompose the ammonium persulfate. The silicic acid is filtered off end the silicon is determined by weighing in the form of SiO2. Final titration of the titanium in the filtrate is done with a 0.05 M solution of ZnSO1. The relative error of the method does not exceed 2.5%. In the spectroscopic method, the titanium is determined in the form of tetrabutoxytitanium and silicon in the form of tetracxysilane. In this method, the standard relative error in the determination is 2.2% for titanium and 4% for silicon. Comperative results by the two methods are shown in tabular form. According to the article, the spectroscopic method is to be preferred in practice, since no preliminary mineralization is required. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 07/ SUBM DATE: 28Nov64/ ORIG REF: 010/ OTH REF: 002

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P. BEST MARKET BERKER FOR BUTCHES AND STATE OF THE STATE IJP(c) JD/JG SOURCE CODE: UR/0075/66/021/001/0034/0039 EVT(m)/EWP(t)/ETI L 36079-66 AP6016298 (A) ACC NR: Kreshkov, A. P.; Yarovenko, A. N.; Milayev, S. M.; Aldarova, AUTHOR: 31 N. Sh. ORG: Moscow Chemico-technological Institute im. D. I. Mendeleyev 3 (Moscovskiy khimiko-tekhnologicheskiy institut); Eastern Siberian Technological Institute, Ulan-Ude (Vostochno-Sibirskiy tekhnologicheskiy institut) TITLE: Analysis for salts of rere earth elements in nonequeous solutions SOURCE: Zhurnal analiticheskoy khimii, v. 21, no. 1, 1966, 34-39 TOPIC TAGS: quentitative analysis, rere earth element, nonequeous solution ABSTRACT: The article describes the results of a study of the behavior of the rare earth elements in alcohols, ketones, and in a mixture of methanol and acetone. Nitrates of the rare earth elements in a methanol-acetone medium (1:4) act as acids and can therefore be determined by direct potentiometric titration with a standard benzenemethanol solution of tetraethylammonium hydroxide or with a methanol solution of tetramethylammonium hydroxide. The following rare earths UDC: 543.70 Card 1/2

中国,我们的一个人,我们就是我们的人,我们就是我们的人,我们就是这些人,我们就是这个人,我们也不是一个人,不是一个人,不是一个人,不是一个人,我们就是这些人,我们 "我们是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们就是

ACC NR: AP6016298

Were determined: Y, La, Ce(III), Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Yb, Lu, and Th. A figure gives the titration curves for individual rare earth nitrates, and a second figure gives the titration curves for mixtures of rare earth nitrates and for mixtures of nitrates with nitric scid. Further figures give enalogous curves for the the nitrates of various elements and for mixtures of rare earth nitrates with the nitrates of other elements. The actual analytical results of the determinations are shown in tabular form. Orig. art. has: 4 figures and 3 tables.

SUB CODE: 07/ SUEM DATE: 06May65/ ORIG REF: 004/ OTH REF: 013

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826410

44(n)/SOURCE CODE: UP/0075/66/021/007/0813/0816 ACC NR. AP6024289 32 13 AUTHOR: Kreshkov, A. P.: Yarovenko, A. N.: Milayev, S. M. ORG: Moscow Chemical Engineering Institute im, D. I. Mendeleyev (Moskovskiy khimikotekhnologicheskiy institut) TITLE: Analysis of magnesium rare earth element alloys in nonaqueous solutions SOURCE: Zhurnal analiticheskoy khimii, v. 21, no. 7, 1966, 813-816 magnesium alloy, rare earth element, nonaqueous solution, titrimetry, TOPIC TAGS: BROMIDE ABSTRACT: The behavior of chlorides, bromides, and nitrates of Sc, Y, La, Ce, Pr, Nd, Sm, Eu. Gd, Yb, Dy, Ho, Er, Tm, and Lu in nonaqueous solvents was studied, and it was found that bromides in mixed methanol-acetone solvent can be determined separately by direct potentiometric titration with a standard benzene-methanol solution of tetraethylammonium hydroxide. On the basis of earlier determined properties of mineral acids and their salts in nonaqueous solutions, new and rapid methods have been developed for analyzing binary and ternary Mg, Mn, Cd, Co, Ni, Zn, Al, Pb, and other metal base alloys with rare earths. A procedure for analyzing magnesium alloys with the rare earths enumerated above is described. It consists of a consecutive potention metric titration of rare earth and magnesium bromides in a 1:4 methanol-acetone solvent. It is rapid and reasonably accurate and can be applied to the analysis of certain ternary magnesium alloys. Orig. art. has: 2 figures and 2 tables. [27] SUB CODE: 07/ SUBM DATE: 23Ju165/ ORIG REF: 007/ OTH REF: 001/ ATD PRESS:5035 UDC; 543.70 1/1/11/20 到的是**到了我们的国际的国际的对象,但是是是**对于是一个对于

等的,我们就会被通过<mark>的,我们也是这些的现在,我们就是不是是</mark>这个人,你们也没有一个,你们的是是是是一种的,我们就是这些的,我们就是这些的,我们就是这些的,我们就是 I. 36925-66 EWT(m)/EWP(t)/ETI IJP(c) JD/JG ACC NRI AP6012212 SOURCE CODE: UR/0032/66/032/004/0396/0397 AUTHOR: Kreshkov, A. P.; Yarovenko, A. N.; Milayev, S. M. Æ ORG: Moscow Chemico-technological Institute im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut) TITLE: Analysis of alloys of the rare earth elements in nonaqueous solutions Zavodskaya laboratoriya, v. 32, no. 4, 1966, 396-397 SOURCE: TOPIC TAGS: quantitative analysis, rare earth element, nonaqueous solution ABSTRACT: The article reports a fast approximate method of analysis of alloys of the rare earth elements, based on dissolving them in hydrobromic acid and subsequent titration of the compounds obtained in a methanol-acetone medium, with a standard benzene-methanol solution of tetraethylammonium hydroxide. The method has been applied to the analysis of binary and ternary alloys of the rare earth metals based on magnesium, manganese, cadmium, cobalt, nickel, zinc, aluminum, lead, and other metals. The titration was carried out by the potentiometric method. Measurement of the potentials was done with a type LP-58 Card 1/2 UDC: 543.7

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tentionmeter t. has: 2 f	. Experiment igures and 2	tal results ar tables.	e given in	two tables.	Orig.	
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ard 2/2 /2/	:					

ACC NR: AP6015726 (A) SOURCE	r(c) m/3D code: ur/0032/66/032/005/0558/0559
AUTHOR: Kreshkov, A. P.; Kucharev,	Ye. A.
ORG: <u>Moscow Chemico-technological</u> (Moskovskiy khimiko-tekhnologichesk	Institute im. D. I. Mendeleyev E
TITLE: Spectroscopic method of det organomotallic compounds	ermining germanium, tin, and lead in
SOURCE: Zavodskaya laboratoriya, v	. 32, no. 5, 1966, 558-559
TOPIC TAGS: spectrographic analysi organometallic compound	s, germanium, tin, lead,
is based on the spectrophotographic organometallic compounds in 1-propy the condensed spark from a cup-shap mixture of ethylene glycol and wate to be determined in the solution is in the substance being analyzed is	substance to be analyzed. The method samples of solutions of the plants of the samples are introduced into
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ACC NR: AP6015726		
organic compounds of germanium 1 tin land lead. The mean square error in		
organic compounds of germanium tin, and lead. The mean square error in the spectroscopic determination of germanium is 2.8%, of tin 2.7%, and of lead 3.3%. Orig. art. has: 2 figures and 1 tables.		
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SUB CODE: 07, 20/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001		
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KRESHKOV, I. P.

Dissertation: "Theory of Motion of the rifth Jupiter's Satellite."

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Moscow State U. imeni

M. V. Lomondsov.

SO Vecheryaya Moskva

Sum 71

KRESHKOV, A.P., prof.; KRESHKOVA, Ye.K., assistent

Anhydrous solutions. Khim. v shkole 17 no.3:3-10 My-Je '62.

(Solution (Chemistry))

PLATONOV, V.M.; KRESHTAKOVA, G.P.

Calorizing automobile engine valves. Metalloved. i term. obr. met. no.5:61-63 My '63. (MIRA 16:5)

1. Nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya Chelyabinskogo soveta narodnogo khozyaystva. (Automobiles—Engines—Valves) (Aluminum coating)

s. Department for the contract of the contract

CIA-RDP86-00513R000826410

ACC NR

AP7000317

SOURCE CODE; UR/0413/66/000/022/0052/0052

AUTHOR: Kareyev, M. F.; Plakhov, A. N.; Zheglov, V. A.; Kreshtapov, Ye. Ya.

ORG: None

TITLE: A device for automatically controlling the rate of motion of the plunger on a horizontal hydraulic press. Class 21, No. 188543 [announced by the All-Union Scientific Research and Design and Planning Institute of Metallurgical Machine Building (Vsesoyuznyy nauchno-issledovatel skiy i proyektno-konstruktorskiy institut metallurgicheskogo mashinostroyeniya)]

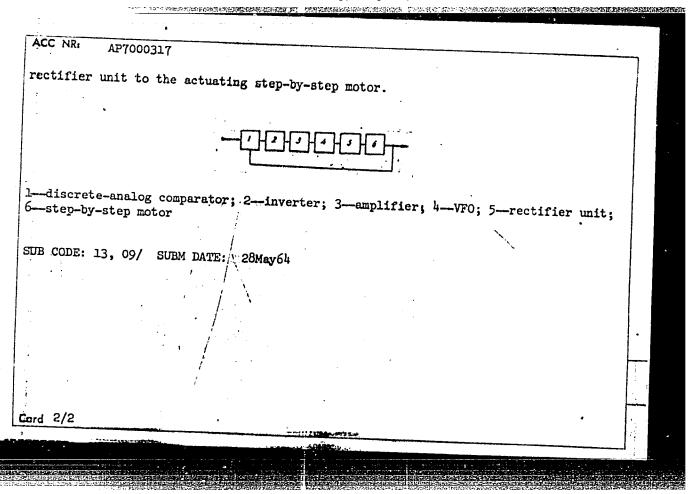
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 52

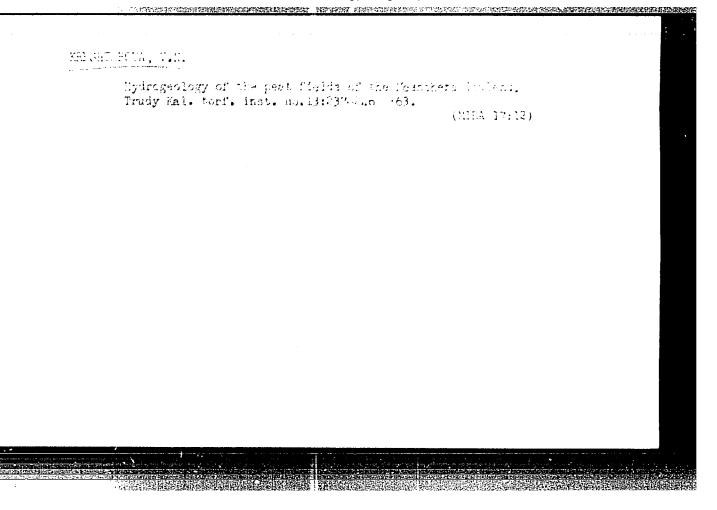
TOPIC TAGS: metal press, automatic control equipment, electronic equipment

ABSTRACT: This Author's Certificate introduces a device for automatically controlling the rate of motion of the rlunger on a horizontal press. The unit contains an amplifier and a DC-AC inverter. The installation is designed to handle a wide range of velocities, to improve efficiency at low velocity and to eliminate the zone of insensitivity and slow response. A master signal and a feedback signal are sent to the inputs of a discrete-analog comparator in the regulator, while the output of this comparator is connected through the inverter to a VFO which is connected through a

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UDC: 621.3.078.4-531.6:621.979-82





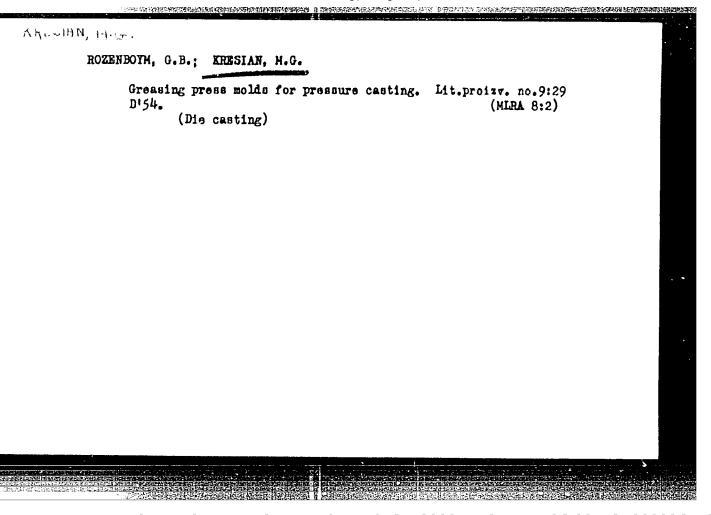
SOKOLOVA, S.M.; STAROSTIN, B.A.; SHATALINA, M.S.; KRESHTAPOVA, V.N.;
SKVORTSOV, A.K.; GOLYSHEVA, M.D.; DUNDIN, Yu.K.; PODLESCKIY, G.I.;
SHKODA, A.M.; DONSKAYA, T.N.; MURTAZANOVA, E.Sh.; LOBACHEV, V.S.;
VORNOV, A.G.; SKOKOVA, N.N.

Brief news. Biul.MOIP.Otd.biol. 70 no.5:130-131 S-0 '65.

(MIRA 18:12)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826410



TRESIC "The importance of transportation costs in determining industrial loos ion." p. 214 (EKCMCISKI PREGLED. Vol. 3, no. 12, Dec. 1952, Zagreb, Yugoslavia) So: Monthly List of East European Accessions, L. C. Vol. 2, No. 7, July 1953, Uncl.

"Some problems in connection with increasing investments." p. 71. (Gratevinar. Vol. 5, no. 2, May 1953. Zagreb.)

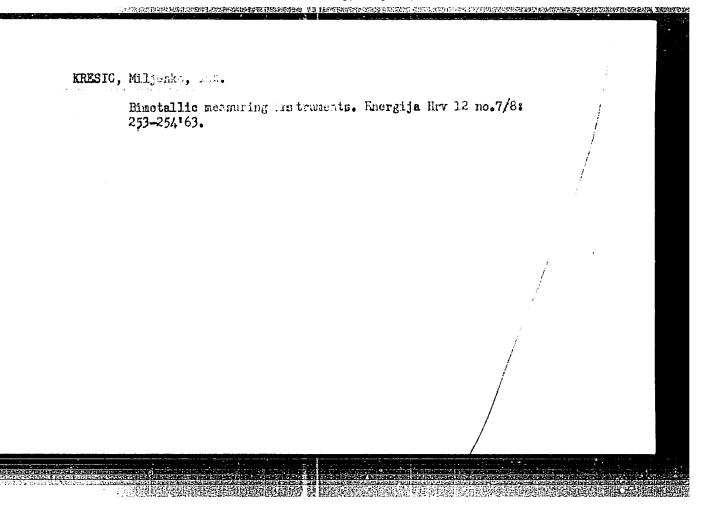
So: Monthly List of East European Accessions. Vol. 3, no. 3. Library of Congress. March 1954. Uncl.

Antalio, 1.

ERESIC, Miljenko, Inz. (Zagreb)

Effect of high-voltage electric wires and atmospheric discharges on the telecommunication cables. Energija Hrv 12 no. 9/10:283-285 '63.

 Zajednica elektroprivrednikh poduzeca Hrvatske, Zagreb, Proleterskih brigada 37.



Interrelations of rheumatic fever and tuberculosis. Pediatriia 37 no.4:49-52 Ap '59. (HIRA 12:6) 1. Iz reventologicheskogo kabineta detskoy polikliniki No.2 Sochi (glavnyy vrach M.I.Akrayeva). (RHEUMATIC FEVER, in inf. & child relation to tuberc. infect. (Rus)) (TUBERCULOSIS, in inf. & child relation to rheum. fevor infect. (Rus))

Familial rheumatic fever. Vop. okh. mat. i det. 5 no.6:26 N-D '60. (MIRA 13:12) 1. Is antirevmatologicheaksgo kabineta detskoy polikliniki No.2, Sochi. (RHEUMATIC FEVER)

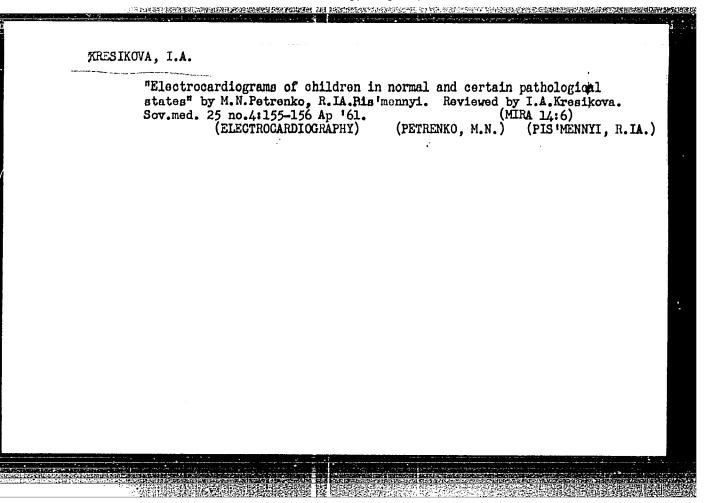
CRIGOR'YEV, I.I.; SHIKHOVA, N.M.; VIADIMIROVA, Z.Ya.; KRESIKOVA, I.A.;

Prevention of rheumatic fever under operating conditions of rheumatological clinics. Vrach. delo nc.9:31-33 S '60.

(MIRA 13:9)

1. Sochinskiy nauchno-issledovatel'skiy institut kurortologii.

(RHEUMATIC FEVER)



KRESHKOV, Anatoliy Policevich, Istonical uchastlyst YAROVENEO, A.N., dots.; KHESHKOVA, Ye.K.; st. propose, VILTEORG, S.S., kand. khim. nauk, dots.; KIKHATIETKO, Ye.Ze.; STOPNIKOVA, N.I., red.; ODERBERG, L.N.; tell.

[Principles of analytical chartetry, qualitative and quantitative analysis on 'wo bream) Comovy analiticheskoi khimid; kachestvennyi i kolichestvennyi analiz [v dvukh knigakh]. Izd.2., perer. Medica Enimia. 2 vol. (MIRA 18:12)

PAVLENKO, Yevpeniy Yakovlevich; KRESIN, M.L., red.; FODANOVA, A.P., tekhn. red.

[Automotive transportation; problems and exercises] Avtomobilinye percyczki; abornik zadach i uprazhmenii. Moskva, Avtotransiziat, 1962. 184 p. (MRRA 16:2)

(Transportation, Automotive—Study and teaching)

YERETSKIY, Mark Isaakovich; KRESIN, Mark Leont'yevich; MATVEYEV, M.I., retsenzent; AFANAS'YEV, L.L., kand. tekhn. nauk, red.; GALAKTIO-NOVA, Ye.N., tekhn. red.

[Methodology of degree projects]Metodika diplomnogo proektirovaniia.

Moskva, Nauchno-tekhn. izd-vo M-va avtomobilinogo transp. i shoseinykh dorog RSFSR, 1961. 206 p.

(Project method in teaching) (Tochnical education)

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s/056/60/033/004/002/048 B019/B070

24.6720 AUTHORS:

Iodko, M. G., Tuchkevich, V. V., Romanov, V. A., Kresin, O.M.

TITLE:

An Investigation of the Relative Intensities of Some Conversion Lines in the Spectrum of Neutron-deficient

Lu-Isotopes

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960,

Vol. 38, No. 4, pp. 1027-1030

TEXT: The authors have investigated the strong lines of the conversion spectrum of the neutron deficient Lu-isotopes by means of a prism spectrometer. The two sources used here were obtained by separating the Lu-isotope fraction from a Ta-target which had been irradiated by 660-Mev protons. With the first source, the energies and the intensities of the conversion lines 66.70 and 75.85 kev in the Lu¹⁷¹ spectrum were measured. and 78.70 and 90.55 kev lines in the spectrum of Lu^{172} . The relative intensities of the 84.19-kev L-lines in the Lu 170-spectrum, the 87:20-kev L-lines in the Lu 169-spectrum, and the 181.4 kev L-lines in the Lu 172-

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An Investigation of the Relative Intensities of S/056/60/038/004/002/048 Some Conversion Lines in the Spectrum of Neutron-B019/B070 deficient Lu-Isotopes

spectrum were measured with the second source. As the second source was very thick, the data obtained with it are to be considered only as rough values. The energies of the lines were measured by a method developed earlier by Romanov (Ref. 4). The energies of the conversion lines, and the calculated values of the transition energies are given in Table 1. The conversion lines are represented graphically in Fig. 1. The ratios of the L-conversion lines of the transitions with 66.74 and 75.89 kev in the Lu¹⁷¹-spectrum are given in Table 2. The analogous ratios for 78.74 kev-, 90.66 kev-, and 181.4 kev in the Lu¹⁷²-spectrum are given in Table 5. The theoretical and the experimental values are compared in the tables 2 and 3, and the multiplicities of 4-transitions are derived from the corresponding L-sub-shell intensities. L. A. Sliv and L. M. Band (Ref. 10) are mentioned. There are 1 figure, 3 tables, and 16 references: 6 Soviet, 8 US, and 2 Dutch.

Card 2/3

83709

An Investigation of the Relative Intensities of S/056/60/038/004/002/048
Some Conversion Lines in the Spectrum of Neutron- B019/B076 deficient Lu-Isotopes

ASSOCIATION: Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR (Leningrad Institute of Physics and Technology of the

Academy of Sciences, USSR)

August 7, 1959 SUBMITTED:

Card 3/3

s/057/62/032/001/003/018

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Ankudinov, V. A., Kel'man, V. M., Kresin, O. M., and

Sysoyeva, L. N.

TITLE:

AUTHORS:

Motion of charged particles in a uniform magnetic field the

strength of which is linearly dependent on time

Zhurnal tekhnicheskoy fiziki, v. 32, no. 1, 1962, 22-29 PERIODICAL:

TEXT: The motion of charged particles of mass m and charge e was studied in a uniform magnetic field $H_z = H_0 t + H_1$. H_0 and H_1 are constant. The electric field created by the variation in magnetic field strength is shown as Ey = $-H_0r/2c$. The equations of motion for a charged particle in nonrelativistic approximation read:

 $m(\ddot{r}-r\dot{y}^{2}) = \frac{e}{\sigma}r\dot{y}(H_{0}t + H_{1}), \frac{m}{r}\frac{d}{dt}(r^{2}\dot{y}) = -\frac{eH_{0}r}{2\sigma} - \frac{e}{\sigma}\dot{r}(H_{0}t + H_{1}), m\ddot{z} = 0.$ From the latter equation it follows that $z = \dot{z}_0 t + z_0$ (3), where \dot{z}_0 and z_0 are constant. Thus, the particles travel in an r-y plane moving along the z-axis at constant velocity. By substituting Card 1/4

5/057/62/032/001/003/018 B104/B138

Motion of charged particles ...

$$\omega_0 = \frac{eH_0}{2mo}, \ \omega_1 = \frac{eH_1}{2mo}, \tag{A}$$

in the equations of motion, one obtains

$$r - r\dot{\varphi}^2 = 2r\dot{\varphi} (\omega_0 t + \omega_1), \qquad (4) - (5).$$

$$\frac{d}{dt} (r^2 \dot{\varphi}) = -\omega_0 r^2 - 2r\dot{r} (\omega_0 t + \omega_1).$$

Using the complex function $U = \text{rexp}\left\{i(\psi + \omega_0 t^2/2 + \omega_1 t)\right\}$, this system can be represented in the form $U + (\omega_0 t + \omega_1)^2 U = 0$ (7).

$$U = \sqrt{t + \frac{\omega_1}{\omega_0} \left\{ C_1 J_{\gamma_i} \left[\frac{(\omega_0 t + \omega_1)^2}{2\omega_0} \right] + C_2 J_{-\gamma_i} \left[\frac{(\omega_0 t + \omega_1)^2}{2\omega_0} \right] \right\}}.$$
 (8)

is a solution of (7), J_n being the Bessel function. The constants in (8) are determined with the aid of an initial value problem, and Card 2/4

Motion of charged particles ...
$$S/057/62/032/001/005/018$$

$$U = \frac{\pi}{2} \sqrt[4]{\frac{x_0 x}{\omega_0^3}} \{\omega_i r_0 [J_{\eta_i}(x_0) J_{\eta_i}(x)z + J_{-\eta_i}(x_0) J_{-\eta_i}(x)] + \\ + [f_0 + n I r_0 (\phi_0 + \omega_1)] [J_{-\eta_i}(x_0) J_{\eta_i}(x) - J_{\eta_i}(x_0) J_{-\eta_i}(x)]\}, \qquad (13)$$

$$x = \frac{(\omega_0 I + \omega_1)^2}{2^2 \sqrt{2\omega_0}}, \quad \text{a} \quad x_0 = \frac{\omega_1^2}{2\omega_0}.$$
is obtained as solution. Since \mathbf{r} is the amount of the complex function \mathbf{U} , one has
$$\mathbf{r} = \sqrt{UU^2} = \frac{\pi}{2} \sqrt{4^2 \frac{x_0 x}{\omega_0^2}} [r_0^2 (\phi_0 + \omega_1)^2 [J_{-\eta_i}(x_0) J_{\eta_i}(x) - J_{\eta_i}(x_0) J_{-\eta_i}(x)]^2 + \\ -\frac{\pi}{2} [\omega_1 r_0 (J_{\eta_i}(x_0) J_{\eta_i}(x) + J_{-\eta_i}(x_0) J_{-\eta_i}(x)) + h_0 (J_{-\eta_i}(x_0) J_{\eta_i}(x) - \\ -J_{\eta_i}(x_0) J_{-\eta_i}(x)]^2]^{\gamma_i} \qquad (14)$$

$$\varphi = x_0 - x + \text{arctg} \frac{f_0(\phi_0 + \omega_1)}{f_0 + \omega_1 f_0 J_{-\eta_i}(x_0) J_{-\eta_i}(x)}. \qquad (15)$$
Card $3/4$

Motion of charged particles ...

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S/057/62/032/001/003/018 B104/B138

(3), (14), and (15) fully describe the motion of a charged particle in the given magnetic field. A thorough study shows that if a particle moves long enough its kinetic energy is almost linearly time-dependent. The results are applied to a number of special cases. There are 9 figures and 2 non-Soviet references. The two references to English-language publications read as follows: Gordon, Charged-Particle Orbits in Varying Magnetic Fields, J. of Appl. Phys., 31, no. 7, 1187 (1960); C. S. Gardner, Particle trajectories in homogeneous magnetic field with linear time dependence, University of California, Lawrence Radiation Laboratory, Berkeley, California, Rept. 4563 (Aug. 1955).

ASSOCIATION:

Fiziko-tekhnicheskiy institut AN SSSR im. A. F. Ioffe, g.

Leningrad (Physicotechnical Institute AS USSR imeni A. F.

Ioffe, Leningrad)
March 27, 1961

SUBMITTED:

Card 4/4

THE REPORT OF THE PROPERTY OF

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826410(

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826410

AUTHOR: Kresin, R., Dotsent of the Chair of Industrial Statistics

TITLE: On the Relations Between Salary Funds and Gross Production (O svyazi mezhdu fondom zarabotnoy platy i valovoy produk-

tsiyey)

PERIODICAL: Vestnik Statistiki, 1958, Nr 5, pp 31 - 35 (USSR)

ABSTRACT: The author presents a new method of calculating salary funds

(proportionally to the labor input used in production) and builds up a new index to correct salary funds according to actual requirements. Theoretical calculation principles are expounded and demonstrated by examples. There are 2 tables.

ASSOCIATION: Bukharestskiy neftyanoy institut (The Bucharest Petroleum

Institute)

AVAILABLE: Library of Congress

Card 1/1

30(5)

sov/2-59-5-3/10

AUTHOR:

Kresin, R. (Rumania)

THE PROPERTY OF THE PROPERTY O

TITLE:

Analysis of Labor Efficiency by Means of Indices

PERIODICAL:

Vestnik statistiki, 1959, Nr 5, pp 40-44 (USSR)

AUTHOR:

The author (from Rumania) states that statistical indices enable registering increased labor efficiency, resulting from technical improvements, higher labor qualifications and better working organization. Labor efficiency is calculated from the amount of production divided by working time and is represented

by a formula $q=\frac{Q}{T}$, where q is labor efficiency; Q is the amount of material produced and T is working time used in this production. This formula, applied in various areas, industries or factories of the same industry, will give different results, symptomatic of different factors affecting labor efficieny in small areas or industrial units. But the formula

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SOV/2-59-5-3/10

Analysis of Labor Efficiency by Means of Indices

can also be applied to larger areas and groups of industries, in which case it will indicate an average labor efficiency in a given area or group of industries. The formula itself, according to the author, can be differently represented, but it should always give similar results. There are 2 tables.

Card 2/2

24(3) AUTHORS:

Geylikman, B. T., Kresin, V. Z.

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SOV/20-123-2-13/50

TITLE:

On the Phononic Thermal Conductivity of Superconductors

(O fononnoy teploprovodnosti sverkhprovodnikov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 2, pp 259-261

(USSR)

ABSTRACT:

Several mechanisms of thermal conduction are known to exist which are connected with the interaction of electrons, phonons, and the atoms of the impurity. In superconductors the thermal conduction of the lattice plays an important part. In a previous paper by B. T. Geylikman the electronic thermal conduction connected with the distance between electrons in the impurities was calculated. In the present paper the thermal conductivity due to the action of electrons on phonons is determined. There exists also a temperature range in which this mechanism is one of the most important $(T \geq (0.3-0.5)T_k)$. First, the kinetic equation for the distribution functions of phonons is written down. In the Hamiltonian of electron-phonon interaction one passes over to new Fermi amplitudes by means of a transformation. Next, a formula for the collision integral is given on the basis of these new amplitudes, and also the

Card 1/2

On the Phononic Thermal Conductivity of Superconductors

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distribution function is written down. The calculation process is outlined. The expression obtained for the thermal heat flow of the lattice is given. The formulae found give a good description of the experimental results obtained by

R. J. Sladek (Ref 5). There are 5 references, 3 of which are

Soviet.

' ASSOCIATION: Moskovskiy gosudarstvennyy pedagogicheskiy institut im.

V. I. Lenina (Moscow State Pedagogical Institute imeni V. I. Lenin)

PRESENTED:

July 12, 1958, by L. A. Artsimovich, Academician

SUBMITTED:

July 10, 1958

Card 2/2

CIA-RDP86-00513R000826410(APPROVED FOR RELEASE: Monday, July 31, 2000

KRESIN, V.X., Cand Phys Math Sci ** (diss) "Transfer phenomened and paramagnetism im superconductors." Mos, 1959, 7 pp (Mos State Pedagogical Inst im V.I. Lenin) 150 copies (KL, 30-59, 111)

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amak 3518, 1959, Br 2, pp 90-100 (1938) mank 3518, 1959, Br 2, pp 90-100 (1938) and Conference on the problem took place in oner 7 to Bowener 1, 1950. It was attended Bascow harton to place in the standard of the properties of the properties of the standard of the temperature of the standard of the	wat to the anisotropy of thermality either states of reporting and series of reporting and series of reporting to the series of reporting the series of reporting and series of reporting and series of reporting and series of relationship to the series of the formal series of the series of	at low temperatures. A. Athle and J. P. Perseinally epic of the angle
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sov/56-36-3-66/71

24(1) AUTHORS:

Geylikman, B. T., Kresin, V. Z.

TITLE:

On the Thermal Conductivity and Sound Absorption in Superconductors (O teploprovodnosti i pogloshchenii zvuka v

sverkhprovodnikakh)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 3, pp 959 - 961 (USSR)

ABSTRACT:

The present paper ("Letter to the Editor") is based upon two earlier papers (Refs 1,2) by the same authors. In the first, the electronic thermal conductivity $\kappa_{\rm e}$ of superconductors

was investigated, and the latter investigates the phonon thermal conductivity $\boldsymbol{k}_{\,p}$ in dependence on phonon-electron

collisions. The present paper shows that the temperature dependence of κ_e and κ_p derive in references 1 and 2 may serve as an explanation of the experimental data today

available on thermal conductivity. According to reference 2

it holds that

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 $\hat{y}_p^n = \kappa_p^n F(T)/F(T_k)$; the index s denotes the superconductive -